

Module title:	Mastitis prevention and treatment in dairy herds	ECTS	2
Polish translation:	Profilaktyka i terapia mastitis w stadach krów		
Course:	Veterinary Medicine		

Module language: English		Stage: JM-FVM	
Form of studies: ☒ intramural ☐ extramural	Type of module: ☐ basic ☒ directional	☐ mandatory ☒ elective	Semester: 11 ☒ winter semester ☐ summer semester
Academic year:		Intake 2021/2022	Catalogue number: FVM-V-JMSS-11W-E14_20

Module coordinator:		dr Michał Trela		
Teachers responsible for the module:		Academic teachers of the Faculty of Veterinary Medicine; Department of Large Animal Diseases with Clinic; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study		
Assumptions, Goals, and Course Description		The aim of elective courses is to familiarize students with practical aspects of managing a herd of dairy cows in the context of prevention and treatment of mastitis. Prioritize management changes to achieve stated goals. Set achievable targets for the average number of somatic herd cells (SCC) an indicator of clinical mastitis. Maintenance of a Clean, Dry, Comfortable Environment. Proper Milking Procedures. Proper Maintenance and Use of Milking Equipment. Effective Dry Cow Management and Regular Monitoring of Udder Health Status - clinical classes. Diagnosis and analysis of clinical mastitis in herd. Independent analysis of clinical - cases		
Teaching forms, number of hours:		a) Lectures; hours 5; b) Clinical laboratories; hours 25;		
Teaching methods:		Students will work in a team during classes. During the classes, films, presentations, preparations, equipment, milking machines and computer programs will be presented. Selected clinical cases will be analysed. Consultations for students 1h / week. Detailed schedule will be defined by the coordinator of the course at the beginning of semester. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.		
Formal prerequisites and initial requirements:		Farm animals diseases, Farm animals diseases-rotation Knowledge in above-mentioned subject		
Learning effects		Course outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*
Knowledge:	1	The student follows the rules of clinical evaluation and animal health monitoring;	B.W.5	3
	2	The student correctly assesses conditions of animal welfare;	B.W.9	3
	3	Students knows the principles of conducting clinical trials and monitoring the health status of farm animals	B.W.4, B.W.5, B.W.6, C.W.3	3
Skills:	1	Student is able to diagnose diseases of farm animals using laboratory diagnostic methods	A.U.12, B.U.2, A.U.19, B.U.1, B.U.3, B.U.6, B.U.20, C.U.2	3
	2	Student is able to collect, secure and properly mark biological samples	B.U.8, B.U.1, B.U.6, A.U.10	3
	3	The student has the ability to interpret the results of additional methods of diagnosis of mastitis	B.U.7	3
	4	The student has the ability to apply adequate methods of mastitis prevention	B.U.3	3
Competences:	1	Student critically analyzes the results of research and is ready to use them for diagnostics, treatment and eradication of diseases of farm animals	K.S.4, K.S.5, K.S.7	3
	2	The student is ready to work in a team; Good communication with the animal owner / keeper	KS.3; KS.10	3
	3	Independently makes clinical diagnosis	KS.4; KS.5	3

Objectives of the module required to obtain learning effects:	The aim of elective courses is to familiarize students with practical aspects of managing a herd of dairy cows in the context of prevention and treatment of mastitis.
Assessment methods:	The basis for completing the course is the presence and active participation in the implementation of the curriculum, the correct implementation of all the procedures presented. Strategies for controlling and preventing mastitis in the herd 20% of absence is allowed in accordance with the study regulations. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.
Detail description of assessment methods; Formal documentation of learning outcome:	Theoretical test, written one or multiple choice test. The second test date is in the same form. Scoring for the written test: 61-69% - (3.0) 70-76% - (3.5) 77-84% - (4.0) 85-92% - (4.5) 93-100% - (5.0) No extra assessment methods are anticipated. eHMS entry. Records collected in the course portfolio i.e. individual records of student results, presence lists, database of oral and written questions, written assessments of the students.
Elements impelling final grade:	Activity during classes – 50% Exam – 50%
Teaching base:	Department of Large Animal Disease with Clinic, University and external farms
Mandatory and supportive materials : Mandatory and supportive materials : 1.Large Animal Theriogenology. R.F. Youngquist, W.L. Threlfall. 2nd ed. Saunders, Elsevier. 2007 2. Mastitis in Cattle. A. Biggs. The Crowood Press, 2009 3. Periodicals: Theriogenology, Animal Reproduction Science, Reproduction of Domestic Animals, Biology of Reproduction. Relevant scientific publications including those of the module coordinator.	
ANNOTATIONS During clinical and laboratory classes, protective clothing is required: apron and covered footwear. The necessary condition for participation in classes is the possession of accident insurance (in Polish: Ubezpieczenie NNW).	

* 3 – complete and detailed, 2 – moderate, 1 – basic.

Quantitative summary of the module:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:	50 h
Total ECTS points, accumulated by students during contact learning:	1 ECTS